

# **APPENDIX 5**

## Appendix 5. Translation Map of the Bandman Sequence (SEQ ID NO: 130)

The nucleotide assignment of the Bandman sequence is given under the amino acid translation. The sequences identical between the Bandman sequence and SEQ ID NO:67 and the translated polypeptide SEQ ID NO:51, are bolded.

Note that a cluster of stop codons at the 5' end of the C $\beta$ 2 region makes the polynucleotide untranslatable.

```
cgaggaggactcctggttctgggtgctgggagancgatggggctctcagcgggtgggaaggacc 60
                                M G L S A V G R T 9
                                < -----
cgagctgagttctgggacagcagagcggggcagcaccgggtttttgtcctgggcctccaggct 120
R A E S G T A E R A A P V F V L G L Q A 29
----- 5' intronic upstream of J $\beta$ 2.3 -----
GtgagcacagatacgcagttatTTTTGGCCAGGCACCCGGGTGACAGTGTCTGGTAAGCGG 180
V S T D T Q Y F G P G T R L T V L G K R 49
--- >< ----- J $\beta$ 2.3 exon ----- >< -----
Ggggtcccgcgtgaagcccggaactggggagggggcgccccgggacgcggggggcgctgc 240
G L P L K P G N W G G G A P G R R G R R 69
----- intron -----
Agggccagtttctgtgcgcgtctcggggctgtgagccaaaacattcagttacttcggcg 300
R A S F C A A S R G C E P K T F S T S A 89
----- >< ----- J $\beta$ 2.4 exon -----
Cggggaaccgggtctcagttgctggaggacctgaaaaacgtgttcccacccgaggtcgtg 360
P G P G S Q C W R T Stop K T C S H P R S L 109
----- > <-- C $\beta$ 2 (up to the end of the sequence)
Tgtttgagccatcagaagcagagatctcccacacccaaaaggccacactggtgtgcctgg
C L S H Q K Q R S P T P K R P H W C A W
Ccacaggctttctaccccgaccacgtggagctgagctggtgggtgaatgggaaggaggtgc
P Q A S T C P T T W S Stop A G G Stop M G R R C
acagttggggtcagcacagaccgcagccctcaaggagcagcccgccctcaatgactcca
T V G S A Q T R S P S R S S P P S M T P
gatactgcctgagcagccgcctgaggggtctcgccaccttctggcagaacccccgcaacc
D T A Stop A A A Stop G S R P P S G R T P A T
acttcgcgtgtcaagtccagttctacgggctctcggagaatgacgagtggaaccaggata
T S A V K S S S T G S R R M T S G P R I
gggccaaacctgtcacccagatcgtcagcgccgagggcctggggtagagcagactgtggct
G P N L S P R S S A P R P G V E Q T V A
tcacctccggtaagtgagttctctcctttttctctctatctttcgccgtctctgctctga
S P P V S E S L L F L S I F R R L C S R
accagggcatggagaatccacggacacaggggcgtgagggaggccagagccacctgtgca
T R A W R I H G H R G V R E A R A T C A
caggtacctacatgctctgttcttgtcaacagagttaccagcaaggggtcctgtctgc
Q V P T C S V L V N R V L P A R G P V C
caccatcctctatgagatcttgcaggaaggccaccttgatgccgtgctggtcagtgcc
H H P L Stop D L A R E G H L V C R A G Q C
cctcgtgctgatggccatgggtcaagagaaaggattccagaggctagctccaaaaccatcc
P R A D G H G Q E K G F Q R L A P K P S
caggtcattcttctcctcaccaggatttctcctgtacctgctcccaatctgtgttctta
Q V I L H P H P G F S C T C S Q S V F L
aaagtgattctcactctgcttctcatctcctacttacatgaatacttctctctttttct
K V I L T L L L I S Y L H E Y F S L F S
gtttccctgaagattgagctcccaaccccccaagtacgaaataggc
V S L K I E L P T P K Y E I G
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